

WHAT IS CLAIMED IS:

Sub ~~1~~ 1. A game machine system comprising a server device, a display device, and a game executing device, which are connected to each other via a digital communication line,

said server device comprising:

information storage unit for storing game software information including a game control program and display data used to form a game screen in accordance with said game control program;

game software information acquisition means for acquiring said game software information which is provided by means of broadcasting or via a dedicated communication line and storing the acquired game software information in said information storage unit; and

information transmitting means for reading necessary information from said information storage unit in response to a request received via said digital communication line and transmitting said information over said digital communication line,

said game executing device comprising:

game selection command input means for inputting a game selection command to select a specified game;

a game selection request transmission means for transmitting, over said digital communication line, a game



means.

em according to Claim 1, wherein  
position means of said display  
ng data-compressed image  
said server device over said  
nd also image information  
and transmitted over said  
y said game executing device,  
comprises:

decompression means for decompressing the data-  
d image information acquired by said image  
on acquisition means; and

image synthesizing means for synthesizing an image  
image represented by the image information which  
received from said server device and then  
used by said decompression means and the image  
ed by the image information which has been  
by said game executing device and then  
used by said decompression means.

tem according to Claim 1, wherein  
comprises:

acquisition means for acquiring

additional information associated with selectable information used in a game and storing said additional information in said information storage unit, said additional information being supplied by means of broadcasting or via a dedicated communication line; and

additional information transmission means for reading the information acquired as said additional information in response to an additional information providing request received via said digital communication line and then transmitting said information over said digital communication line instead of the original information used in the game;

said game executing device further comprising:

additional information selection command input means for inputting an additional information selection command specifying additional information to be used instead of the original selectable information used in the game; and

additional information request transmission means for transmitting a request for additional information specified by said additional information selection command input via said additional information selection command input means, over said digital communication line.

4. A game machine system according to Claim 1, wherein one of devices connected to said digital communication line

includes:

communication line connecting means for connecting a communication line with a game software information provider in response to a command issued by a user; and

information request transmission means for transmitting, in response to a command issued by the user, a request for desired information to said game software information provider via the communication line connected by said communication line connecting means.

5. A game machine system according to Claim 1, wherein one of devices connected to said digital communication line includes:

a usage history information storage unit for storing information about the history of usage of games; and

usage history information updating means for updating said information about the history of usage of games stored in said usage history information storage unit, when said game selection command transmission means of said game executing device has transmitted said game selection command,

thereby making it possible to perform accounting in accordance with the usage history information stored in said usage history information storage unit.

6. A game machine system according to Claim 5, wherein

one of devices connected to said digital communication line includes:

communication line connecting means for connecting a communication line with said game software information provider; and

usage history information transmission means for transmitting said usage history information stored in said usage history information storage unit via said communication line, at a scheduled time or in response to a usage history information transmission request transmitted from said game software information provider via said communication line.

7. A game machine system according to Claim 1, wherein said digital communication line includes a digital serial bus.

8. A game machine system according to Claim 1, wherein said digital communication line includes a wireless communication channel.

Sub B2 9. A server device in a game machine system comprising said server device, a display device, and a game executing device, which are connected to each other via a digital communication line, said server device comprising:

information storage unit for storing game software information including a game control program and display data used to form a game screen in accordance with said game control program;

game software information acquisition means for acquiring said game software information which is provided by means of broadcasting or via a dedicated communication line and storing the acquired game software information in said information storage unit; and

information transmitting means for reading necessary information from said information storage unit in response to a request received via said digital communication line and transmitting said information over said digital communication line.

10. A server device according to Claim 9, further comprising:

additional information acquisition means for acquiring additional information associated with selectable information used in a game and storing said additional information in said information storage unit, said additional information being supplied by means of broadcasting or via a dedicated communication line; and

additional information transmission means for reading the information acquired as said additional information in

response to an additional information providing request received via said digital communication line and then transmitting said information over said digital communication line instead of the original information used in the game.

11. A server device according to Claim 9, further comprising:

communication line connecting means for connecting a communication line with a game software information provider in response to a command issued by a user; and

information request transmission means for transmitting, in response to a command issued by the user, a request for desired information to said game software information provider via the communication line connected by said communication line connecting means.

12. A server device according to Claim 9, further comprising:

a usage history information storage unit for storing information about the history of usage of games; and

usage history information updating means for updating said information about the history of usage of games stored in said usage history information storage unit, when said game selection command transmission means of said game



executing device has transmitted said game selection command over said digital communication line,

thereby making it possible to perform accounting in accordance with the usage history information stored in said usage history information storage unit.

13. A server device according to Claim 12, further comprising:

communication line connecting means for connecting a communication line with a game software information provider; and

usage history information transmission means for transmitting said usage history information stored in said usage history information storage unit via said communication line, at a scheduled time or in response to a usage history information transmission request transmitted from said game software information provider via said communication line.

Sub B 37 14. A game executing device in a game machine system comprising a server device, a display device, and said game executing device, which are connected to each other via a digital communication line, said game executing device comprising:

game selection command input means for inputting a game

selection command to select a specified game;

a game selection request transmission means for transmitting, over said digital communication line, a game selection request for selection of the game specified by said game selection command input via said game selection command input means;

game control command input means for inputting a game control command;

information request transmission means for transmitting, over said digital communication line, an information request for providing necessary information in accordance with the game control program specified by said game selection command and in accordance with the game control command input via said game control command input means;

information acquisition means for acquiring necessary information from information received via said digital communication line; and

image generation means for generating an image in accordance with game display data included in said information acquired via said information acquisition means and transmitting the image information representing the generated image over said digital communication line.

15. An game executing device according to Claim 14, further comprising:

additional information request transmission means for transmitting a request for additional information specified by said additional information selection command input via said additional information selection command input means, over said digital communication line.

communication line connecting means for connecting a communication line with a game software information provider in response to a command issued by a user; and

information request transmission means for transmitting, in response to a command issued by the user, a request for desired information to said game software information provider via the communication line connected by said communication line connecting means.

17. An game executing device according to Claim 14,  
further comprising:

a usage history information storage unit for storing information about the history of usage of games; and

usage history information updating means for updating said information about the history of usage of games stored in said usage history information storage unit, when said game selection command transmission means of said game executing device has transmitted said game selection command over said digital communication line,

thereby making it possible to perform accounting in accordance with the usage history information stored in said usage history information storage unit.

18. An game executing device according to Claim 17, further comprising:

communication line connecting means for connecting a communication line with a game software information provider; and

usage history information transmission means for transmitting said usage history information stored in said usage history information storage unit via said communication line, at a scheduled time or in response to a usage history information transmission request transmitted from said game software information provider via said communication line.

Sub B4 19. A display device in a game machine system comprising a server device, said display device, and a game



in response to a command issued by a user; and

information request transmission means for transmitting, in response to a command issued by the user, a request for desired information to said game software information provider via the communication line connected by said communication line connecting means.

21. A display device according to Claim 19, further comprising:

a usage history information storage unit for storing information about the history of usage of games;

usage history information updating means for updating said information about the history of usage of games stored in said usage history information storage unit, when said game selection command transmission means of said game executing device has transmitted said game selection command over said digital communication line,

thereby making it possible to perform accounting in accordance with the usage history information stored in said usage history information storage unit.

22. A display device according to Claim 21, further comprising:

communication line connecting means for connecting a communication line with a game software information

provider; and

usage history information transmission means for transmitting said usage history information stored in said usage history information storage unit via said communication line, at a scheduled time or in response to a usage history information transmission request transmitted from said game software information provider via said communication line.

Sub B51 23. A method of using a game using a game machine system comprising a server device, a display device, and a game executing device, which are connected to each other via a digital communication line, said method comprising:

a game software information acquisition step in which said server device acquires game software information supplied via broadcasting or a dedicated communication line and stores the acquired game software information in an information storage unit of said server device, said game software information including a game control program and game displaying data used to form a game screen in accordance with said game control program;

an information transmission step in which said server device reads necessary information from said information storage unit in response to a request received via said digital communication line and transmits said information

over said digital communication line;

a game selection request transmission step in which said game executing device accepts a game selection command issued by a user to select a specified game and transmits, over said digital communication line, a game selection request for selection of the game specified by said game selection command;

an information request transmission step in which said game executing device accepts a game control command issued by the user and transmits, over said digital communication line, a request for providing necessary information in accordance with the game control program specified by said game selection command and in accordance with said game control command accepted via game control command input means;

an information acquisition step in which said game executing device acquires necessary information from information received via said digital communication line;

an image generation step in which said game executing device generates an image in accordance with game display data included in said information acquired in said information acquisition step and transmits the image information representing the generated image over said digital communication line;

an image information acquisition step in which said



image display device acquires image information transmitted via said digital communication line; and

an image displaying step in which said image display device displays an image in according with the image information acquired in said image information acquisition step.

24. A method of using a game according to Claim 23, wherein said image information acquisition step performed by said display device acquires data-compressed image information transmitted from said server device over said digital communication line and also acquires image information generated, data-compressed, and transmitted over said digital communication line by said game executing device;

and wherein method further comprises the steps of:

decompressing the data-compressed image information acquired in said image information acquisition step; and

synthesizing an image from the image represented by the image information which has been received from said server device and then decompressed in said decompression step and the image represented by the image information which has been generated by said game executing device and then decompressed in said decompression step.

an additional information acquisition step in which said server device acquires additional information associated with selectable information used in a game and storing said additional information in said information storage unit, said additional information being supplied by means of broadcasting or via a dedicated communication line;

an additional information transmission step for reading the information acquired as said additional information in response to an additional information providing request received via said digital communication line and then transmitting said information over said digital communication line instead of the original information used in the game;

an additional information selection command input step in which said game executing device accepts an additional information selection command specifying additional information to be used instead of selectable information used in the game; and

an additional information request transmission step for transmitting a request for additional information specified by said additional information selection command accepted in said additional information selection command input step, over said digital communication line.

26. A method of using a game according to Claim 23, further comprising:

a connection command acceptance step for accepting a connection command indicating that a communication line should be connected with a game software information provider;

a communication line connecting step for connecting a communication line with said game software information provider in response to said connection command accepted in said connection command acceptance step;

a command acceptance step for accepting a command indicating that a request for specified information should be transmitted to said game software information provider; and

an information request transmission step for transmitting, in response to said command accepted in said command acceptance step, a request for specified information to said game software information provider via the communication line connected in said communication line connecting step.

27. A method of using a game according to Claim 26, further comprising:

an authentication step in which said game software

an information usage permission message reception step  
in which said sender of said information providing request

receives said information usage permission message transmitted from said game software information provider via said communication line connected in said communication line connected step.

29. A method of using a game according to Claim 23, further comprising a usage history information updating step for updating information stored in a usage history information storage unit about the history of usage of the requested and selected game, when said game selection request is transmitted in said game selection request transmission step,

thereby making it possible to perform accounting in accordance with the usage history information stored in said usage history information storage unit.

30. A method of using a game according to Claim 29, further comprising:

a communication line connecting step for connecting a communication line with said game software information provider; and

a usage history information transmission step for transmitting said usage history information stored in said usage history information storage unit via said communication line, at a scheduled time or in response to a

usage history information transmission request transmitted from said game software information provider via said communication line.

31. A method of using a game according to Claim 23, wherein said digital communication line includes a digital serial bus.

32. A method of using a game according to Claim 23, wherein said digital communication line includes a wireless communication channel.